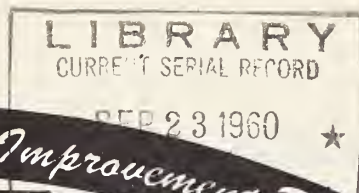


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STANDARD DHIA

OWNER SAMPLER

WEIGH-A-DAY - A-MONTH

AGRICULTURAL RESEARCH SERVICE, U. S. DEPARTMENT OF AGRICULTURE

Dairy-Herd-Improvement Letter

ARS-44-81
(Vol. 36, No. 7)

July 1960

NEW DHIA PROVED-SIRE DATA

The processing of lactation records and the compilation of DHIA Proved-Sire data using 705-III electronic data processing procedures have been completed. The printing of sire records and related reports and mailing them to the various States are now complete.

This operation brings up-to-date all sire tabulations using lactation records reported to November 1959. The next operational run of the 705-III procedures will use all lactation records reported up to the time the "run" is made when all sire data will be compiled on a current basis.

In the first run of the procedures, the following sire data were compiled:

- | | |
|--------------------------------------|---------|
| 1. New Proved-Sire Records * | 6, 268 |
| 2. Proved-Sire Records retabulated * | 15, 511 |
| 3. Daughter-Average Records* | 30, 391 |
| Total Sire Tabulations | 52, 170 |
4. DHIA Proved-Sire List of sires proved or reproved will be published in three parts with a total of about 1, 300 pages and will include summary data for approximately 21, 000 sires. (List will be distributed to those on the mailing list receiving the Dairy-Herd-Improvement Letter.)
 5. Daughter-Average List consists of sires not having sufficient dams with records available for proving or reproving the sire. The list will include daughter-average summary data for 30, 391 sires and will consist of some 1, 700 pages. (List will be distributed only to the State Colleges and the AI Studs.)

*Copies have been sent to the State Colleges.

TABLE 1.--NUMBER OF PROVED-SIRE RECORDS TABULATED IN 1960, BY STATES AND BREEDS ^{1/}

STATE	AYRSHIRE	GUERNSEY	HOLSTEIN	JERSEY	BROWN SWISS	SHORTHORN	RED DANE	RED POLL	TOTAL
ALABAMA-----	9	79	139	209	4	5	-	-	445
ALASKA-----	-	-	3	-	-	-	2	-	5
ARIZONA-----	4	69	92	32	2	-	-	-	199
ARKANSAS-----	4	53	14	47	4	-	-	-	122
CALIFORNIA-----	38	132	192	96	22	-	-	-	480
COLORADO-----	49	79	146	27	39	5	-	-	345
CONNECTICUT-----	185	480	685	232	87	3	-	-	1,672
DELAWARE-----	74	176	223	27	8	-	-	-	508
FLORIDA-----	47	370	139	294	18	-	-	-	868
GEORGIA-----	29	108	285	162	16	1	-	-	601
HAWAII-----	-	2	3	-	-	-	-	-	5
IDAHO-----	17	143	217	177	16	8	-	-	578
ILLINOIS-----	79	492	1,137	255	224	39	1	1	2,228
INDIANA-----	83	475	694	284	103	14	-	-	1,653
IOWA-----	136	395	1,130	296	224	60	-	2	2,243
KANSAS-----	117	158	502	116	64	26	-	2	985
KENTUCKY-----	9	109	261	177	41	-	-	-	597
LOUISIANA-----	7	106	41	86	5	-	-	-	245
MAINE-----	77	151	249	116	17	8	-	-	618
MARYLAND-----	204	598	1,088	160	66	15	-	-	2,131
MASSACHUSETTS-----	187	349	648	287	91	7	-	-	1,569
MICHIGAN-----	91	363	1,027	253	115	10	43	-	1,902
MINNESOTA-----	72	380	1,038	240	134	45	-	4	1,913
MISSISSIPPI-----	7	174	45	125	8	-	-	-	359
MISSOURI-----	4	220	380	278	66	19	-	-	967
MONTANA-----	4	36	63	23	19	3	-	-	148
NEBRASKA-----	26	166	320	31	50	18	-	-	611
NEVADA-----	-	42	11	28	-	-	-	-	81
NEW HAMPSHIRE-----	93	172	338	144	26	4	-	-	777
NEW JERSEY-----	47	436	711	153	108	2	-	-	1,457
NEW MEXICO-----	2	119	44	52	1	-	-	-	218
NEW YORK-----	450	787	2,705	558	183	20	1	1	4,705
NORTH CAROLINA-----	122	427	605	189	19	3	-	-	1,365
NORTH DAKOTA-----	6	42	159	11	41	12	-	1	272
OHIO-----	181	435	784	481	192	15	6	1	2,095
OKLAHOMA-----	61	48	142	103	27	8	-	2	391
OREGON-----	18	190	165	275	38	6	-	1	693
PENNSYLVANIA-----	340	1,280	1,947	402	112	14	-	-	4,095
RHODE ISLAND-----	65	90	142	126	5	-	-	-	428
SOUTH CAROLINA-----	21	183	123	120	12	-	-	-	459
SOUTH DAKOTA-----	18	14	82	10	41	1	-	-	166
TENNESSEE-----	5	135	149	243	9	1	-	-	542
TEXAS-----	30	122	260	285	37	6	-	-	740
UTAH-----	1	100	233	71	9	-	-	-	414
VERMONT-----	193	285	655	450	74	8	-	-	1,665
VIRGINIA-----	63	615	935	148	48	15	-	-	1,824
WASHINGTON-----	31	215	305	231	38	3	-	-	823
WEST VIRGINIA-----	52	147	368	87	13	2	-	1	670
WISCONSIN-----	55	621	1,969	225	229	27	1	1	3,128
WYOMING-----	-	1	32	2	7	-	-	-	42
TOTAL ^{2/}	1,247	5,036	10,642	3,721	853	226	45	9	21,779

^{1/} The number listed for each State frequently includes 1 or more sires proved with records from some other State as well as from the State indicated.

^{2/} The totals given here omit duplication of sires.

TABLE 2.--TOTAL NUMBER OF DAUGHTER-AVERAGE TABULATIONS OF DHIA SIRES COMPILED IN 1960, BY BREED

AYRSHIRE	GUERNSEY	HOLSTEIN	JERSEY	BROWN SWISS	SHORTHORN	RED DANE	RED POLL	TOTAL
1,618	7,025	14,842	4,691	1,214	949	16	36	30,391

TABLE 3.--AVERAGE PRODUCTION OF MILK AND BUTTERFAT OF THE DAUGHTERS OF SIRES PROVED IN 1960, AND THE DAMS OF THESE DAUGHTERS, GROUPED ACCORDING TO BUTTERFAT PRODUCTION RANGE OF THE DAMS TO WHICH THEY WERE MATED

Butterfat production range of dams	Sires	Maintained or increased production	Decreased production	Dam-and- daughter pairs	Average production					
					Dams		Daughters			
					Milk	Butterfat	Milk	Butterfat	Milk	Butterfat
Pounds	Number	Number	Number	Number	Pounds	%	Pounds	Pounds	%	Pounds
Under 275----	212	162	50	1,973	6,248	4.0	252	6,887	4.2	287
275 - 299----	358	251	107	4,126	6,972	4.1	289	7,303	4.2	309
300 - 324----	699	464	235	8,371	7,494	4.2	313	7,756	4.3	332
325 - 349----	1,356	853	503	17,349	8,045	4.2	338	8,206	4.3	351
350 - 374----	2,350	1,301	1,049	36,804	8,675	4.2	363	8,653	4.3	368
375 - 399----	3,514	1,848	1,666	75,401	9,321	4.2	388	9,231	4.2	390
400 - 424----	4,092	1,956	2,136	118,324	10,123	4.1	412	9,930	4.1	410
425 - 449----	3,615	1,538	2,077	132,083	10,957	4.0	436	10,591	4.0	428
450 - 474----	2,560	983	1,577	66,573	11,556	4.0	461	11,110	4.0	448
475 - 499----	1,509	445	1,064	27,532	12,273	4.0	486	11,641	4.0	465
500 - 524----	821	242	579	12,754	12,974	3.9	511	12,189	4.0	484
525 - 549----	387	96	291	6,036	13,186	4.1	535	12,247	4.1	500
550 - 574----	175	41	134	2,666	14,051	4.0	560	12,959	4.0	519
575 - 599----	82	13	69	998	13,891	4.2	585	12,694	4.2	530
600 - 624----	34	6	28	346	14,452	4.2	612	12,930	4.2	545
625 - 649----	11	2	9	107	14,370	4.4	635	13,011	4.3	562
Over 650----	4	-	4	56	15,666	4.3	673	13,939	4.1	578
Total or average--	21,779	10,201	11,578	511,499	10,208	4.1	415	9,965	4.1	411

TABLE 4.--AVERAGE PRODUCTION OF MILK AND BUTTERFAT OF THE DAUGHTERS OF SIRES PROVED IN 1960, AND THE DAMS OF THESE DAUGHTERS, GROUPED ACCORDING TO MILK PRODUCTION RANGE OF THE DAMS TO WHICH THEY WERE MATED

Milk production range of dams	Sires	Maintained or increased production	Decreased production	Dam-and- daughter pairs	Average production					
					Dams		Daughters			
					Milk	Butterfat	Milk	Butterfat	Milk	Butterfat
Pounds	Number	Number	Number	Number	Pounds	%	Pounds	Pounds	%	Pounds
Under 6,500-	586	385	201	6,685	6,038	4.9	297	6,336	5.0	315
6,500 - 7,499-	1,977	1,083	894	29,122	7,095	4.9	350	7,128	5.0	354
7,500 - 8,499-	3,920	1,755	2,165	83,567	8,007	4.9	391	7,821	4.9	386
8,500 - 9,499-	3,119	1,243	1,876	56,160	8,966	4.6	414	8,657	4.7	403
9,500 -10,499-	2,113	1,005	1,108	34,458	9,987	4.1	408	9,805	4.1	405
10,500 -11,499-	2,550	1,462	1,088	52,770	11,047	3.7	407	11,022	3.7	413
11,500 -12,499-	3,512	1,803	1,709	164,574	11,994	3.6	430	11,787	3.7	430
12,500 -13,499-	2,375	987	1,388	58,957	12,943	3.6	463	12,484	3.6	455
13,500 -14,499-	1,154	364	790	18,721	13,919	3.6	496	13,086	3.6	476
14,500 -15,499-	348	87	261	4,937	14,878	3.6	531	13,723	3.6	497
15,500 -16,499-	100	26	74	1,230	15,899	3.5	563	14,394	3.6	520
Over 16,500-	25	1	24	318	17,028	3.5	599	14,587	3.6	519
Total or average---	21,779	10,201	11,578	511,499	10,208	4.1	415	9,965	4.1	411

TABLE 5.--AVERAGE PRODUCTION OF MILK AND BUTTERFAT OF THE DAUGHTERS OF SIRES PROVED IN 1960, AND THE DAMS OF THESE DAUGHTERS, GROUPED ACCORDING TO BUTTERFAT PRODUCTION RANGE OF THE DAUGHTERS

Butterfat production range of daughters	Sires	Maintained or increased production	Decreased production	Dam-and- daughter pairs	Average production					
					Dams			Daughters		
					Milk	Butterfat		Milk	Butterfat	
Pounds	Number	Number	Number	Number	Pounds	%	Pounds	Pounds	%	Pounds
Under 275----	321	43	278	3,068	7,077	4.3	301	5,950	4.2	252
275 - 299----	440	93	347	5,144	7,614	4.3	325	6,725	4.3	289
300 - 324----	906	190	716	10,735	8,131	4.3	348	7,289	4.3	313
325 - 349----	1,600	414	1,186	21,520	8,531	4.3	364	7,830	4.3	338
350 - 374----	2,581	749	1,832	44,123	9,023	4.2	383	8,448	4.3	363
375 - 399----	3,466	1,316	2,150	74,337	9,539	4.2	399	9,147	4.2	387
400 - 424----	3,682	1,741	1,941	97,350	10,307	4.0	416	10,056	4.1	412
425 - 449----	3,293	1,814	1,479	107,438	10,947	4.0	433	10,833	4.0	436
450 - 474----	2,535	1,640	895	84,647	11,454	3.9	450	11,510	4.0	461
475 - 499----	1,478	1,027	451	36,144	11,914	3.9	466	12,205	4.0	486
500 - 524----	724	545	179	14,714	12,262	3.9	484	12,673	4.0	510
525 - 549----	395	310	85	7,246	12,857	3.9	503	13,432	4.0	535
550 - 574----	197	172	25	3,045	12,977	3.9	512	13,905	4.0	560
575 - 599----	99	86	13	1,347	13,397	3.9	529	14,505	4.0	585
600 - 624----	44	43	1	462	13,627	4.0	539	15,046	4.1	610
625 - 649----	10	10	-	100	13,484	4.0	535	15,558	4.1	635
Over 650----	8	8	-	79	12,825	4.6	591	14,858	4.6	683
Total or average--	21,779	10,201	11,578	511,499	10,208	4.1	415	9,965	4.1	411

TABLE 6.--AVERAGE PRODUCTION OF MILK AND BUTTERFAT OF THE DAUGHTERS OF SIRES PROVED IN 1960, AND THE DAMS OF THESE DAUGHTERS, GROUPED ACCORDING TO MILK PRODUCTION RANGE OF THE DAUGHTERS

Milk production range of daughters	Sires	Maintained or increased production	Decreased production	Dam-and- daughter pairs	Average production					
					Dams			Daughters		
					Milk	Butterfat		Milk	Butterfat	
Pounds	Number	Number	Number	Number	Pounds	%	Pounds	Pounds	%	Pounds
Under 6,500-	1,005	164	841	12,090	6,916	5.0	343	5,935	5.1	301
6,500 - 7,499-	2,668	741	1,927	43,437	7,660	4.9	376	7,063	5.0	354
7,500 - 8,499-	3,666	1,580	2,086	74,746	8,284	4.8	397	7,993	4.9	389
8,500 - 9,499-	2,784	1,402	1,382	53,222	9,139	4.5	410	8,956	4.6	409
9,500 -10,499-	2,165	985	1,180	34,916	10,407	3.9	410	10,003	4.0	404
10,500 -11,499-	2,813	1,212	1,601	81,659	11,466	3.6	417	11,036	3.7	411
11,500 -12,499-	3,266	1,744	1,522	127,126	12,173	3.6	436	11,991	3.7	438
12,500 -13,499-	2,054	1,354	700	58,684	12,702	3.6	455	12,943	3.6	469
13,500 -14,499-	910	660	250	19,049	13,371	3.6	478	13,925	3.6	501
14,500 -15,499-	316	241	75	5,073	13,841	3.6	500	14,905	3.6	538
15,500 -16,499-	97	84	13	1,124	14,531	3.6	520	15,879	3.6	569
Over 16,500-	35	34	1	373	14,925	3.6	534	17,149	3.5	605
Total or average---	21,779	10,201	11,578	511,499	10,208	4.1	415	9,965	4.1	411

PRODUCTION RECORDS REPORTED TO THE DAIRY CATTLE RESEARCH BRANCH BY STATE EXTENSION SERVICES,
FOR THE PERMANENT FILES DURING 1959 and 1960

First 6 Months of 1960

1959

State	Production records		Herd Test Records Reported by --						Total records reported	Records Returned		Production records reported	
	test in all:	reported	Ameri-:	Ayrshire:	Brown Swiss:	American:	Ameri-:						
	association:		can	Breeders:	Cattle	Guernsey:	can						
	herds on	1/ 2/	Dairy	Associa-:	Breeders'	Cattle	Jersey:						
	January 1		Club	Cattle:	tion	Association:	Club	Cattle:		3/		2/	
	Number	Number	Number:	Number	Number	Number	Number	Number	Percent:	Number	Number	Percent	
Maine-----	20,980	8,291	-	-	-	94	-	8,385	40.0	150	14,438	74.9	
N. H-----	11,742	3,383	-	-	-	126	-	3,509	29.9	94	6,807	62.4	
Vt-----	45,462	9,987	-	-	-	83	155	10,225	22.5	256	26,859	60.3	
Mass-----	22,100	9,022	15	-	226	264	-	9,527	43.1	49	18,630	88.3	
R. I-----	2,764	502	-	-	-	59	-	561	20.3	20	1,455	52.1	
Conn-----	22,035	7,335	-	-	244	524	-	8,103	36.8	45	16,341	74.5	
N. Y-----	151,049	49,919	51	-	320	793	-	51,083	33.8	9,825	179,978	126.4	
Pa-----	139,606	40,109	-	-	167	347	-	40,623	29.1	257	151,683	125.2	
N. J-----	27,516	6,308	-	-	137	486	-	6,931	25.2	118	13,308	51.9	
Md-----	44,181	13,077	-	-	122	390	-	13,589	30.8	124	37,153	91.2	
Del-----	3,595	1,829	-	-	3	42	-	1,874	52.1	15	3,592	105.1	
Va-----	50,961	15,138	-	-	70	773	-	15,981	31.4	630	43,757	78.7	
W. Va-----	8,736	1,788	-	-	14	16	-	1,818	20.8	35	5,840	74.5	
Ky-----	17,348	2,465	-	-	90	90	-	2,645	15.2	123	4,407	34.0	
N. C-----	32,084	6,318	-	-	-	636	-	6,954	21.7	96	17,022	65.7	
S. C-----	10,557	2,006	-	-	78	412	-	2,496	23.6	58	3,800	45.1	
Ga-----	19,715	2,267	-	-	19	132	-	2,418	12.3	58	4,693	30.9	
Fla-----	21,620	2,446	-	-	8	560	-	3,014	13.9	37	5,594	26.7	
Ala-----	17,803	2,489	-	-	-	42	-	2,531	14.2	24	6,330	40.6	
Miss-----	7,678	827	-	-	6	153	-	986	12.8	10	1,911	30.7	
Tenn-----	16,283	61	-	-	-	205	-	266	1.6	-	3,067	23.6	
La-----	3,966	432	-	-	-	89	-	521	13.1	1	865	25.3	
Ark-----	1,918	350	-	-	10	39	-	399	20.8	4	409	38.5	
Ohio-----	60,137	13,056	12	-	876	973	-	14,917	24.8	425	28,618	51.2	
Ind-----	35,789	3,754	27	-	205	509	-	4,495	12.6	61	12,958	36.9	
Ill-----	58,272	16,989	-	-	560	466	-	18,015	30.9	115	35,832	64.2	
Mich-----	60,851	34,084	-	-	359	530	-	34,973	57.5	957	57,958	105.6	
Wis-----	98,986	21,780	20	-	618	217	-	22,635	22.9	134	38,903	41.1	
Minn-----	107,188	24,007	-	-	129	231	-	24,367	22.7	1,336	56,827	58.2	
Iowa-----	54,454	19,986	-	-	541	194	-	20,721	38.1	311	33,620	68.2	
Mo-----	21,714	4,357	-	-	122	102	-	4,581	21.1	125	8,697	40.6	
N. Dak-----	5,403	1,924	-	-	48	18	-	1,990	36.8	135	2,606	60.2	
S. Dak-----	5,883	680	-	-	69	28	-	777	13.2	7	1,123	19.8	
Nebr-----	13,240	954	-	-	50	125	-	1,129	8.5	53	2,132	18.2	
Kans-----	26,110	5,067	-	-	59	117	-	5,243	20.1	139	12,599	51.4	
Okla-----	7,348	1,829	-	-	42	136	-	2,007	27.3	87	1,508	21.9	
Tex-----	21,866	1,712	-	-	86	135	-	1,933	8.8	40	6,002	35.6	
Mont-----	5,559	515	-	-	88	25	-	628	11.3	6	1,141	21.5	
Idaho-----	25,441	3,694	-	-	29	187	-	3,910	15.4	50	7,338	32.6	
Wyo-----	1,441	91	-	-	-	12	-	103	7.1	4	475	29.2	
Nev-----	3,061	6	-	-	-	-	-	6	.2	-	256	13.0	
Utah-----	16,266	2,228	-	-	-	60	-	2,288	14.1	83	11,286	79.5	
Colo-----	15,514	739	-	-	75	37	-	851	5.5	50	2,257	16.6	
N. Mex-----	4,055	109	-	-	-	94	-	203	5.0	6	1,008	33.0	
Ariz-----	25,951	594	-	-	2	27	-	623	2.4	6	2,166	9.2	
Wash-----	43,626	21,681	-	-	2	506	-	22,189	50.9	1,378	16,133	35.0	
Oreg-----	28,737	8,367	-	-	62	230	-	8,659	30.1	119	15,501	58.7	
Calif-----	295,536	1,089	-	-	64	295	-	1,448	.5	5	2,957	1.1	
P. R-----	4,422	251	-	-	-	-	-	251	5.7	19	87	1.8	
Hawaii-----	203	174	-	-	-	-	-	174	85.7	-	91	42.1	
Alaska-----	0	-	-	-	-	-	-	-	-	-	-	-	
U. S-----	1,746,752	376,066	125	-	5,683	11,681	-	393,555	22.5	17,680	927,998	57.7	

1/ Includes cows enrolled since January 1, 1960.

2/ Production records reported on DHIA-718 and DHIA-1095.

3/ Records returned to States because of inconsistent or incomplete data.

